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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/754,929	01/08/2004	Timothy E. Benson	6245.N/PC29998	8647		
28880 7	7590 06/23/2006		EXAM	EXAMINER		
WARNER-LAMBERT COMPANY			ZHOU, SHUBO			
2800 PLYMOUTH RD ANN ARBOR, MI 48105			ART UNIT	PAPER NUMBER		
ANNALOOR	MI 40103		1631			
			DATE MAILED: 06/23/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)				
Office Action Summary		10/754,92	9	BENSON, TIMOTHY E.				
		Examiner		Art Unit				
		Shubo (Jo	e) Zhoù	1631				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed on							
•	This action is FINAL . 2b)⊠ This action is non-final.							
′—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠	Claim(s) 1-46 is/are pending in the applicatio	n.	·					
-	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
6)	6) Claim(s) is/are rejected.							
	Claim(s) is/are objected to.							
8)⊠	8) Claim(s) 1-46 are subject to restriction and/or election requirement.							
Applicati	on Papers							
9)□	The specification is objected to by the Examir	ner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 11 <mark>9</mark>							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
	•							
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.								
3) Inform	e of Dransperson's Patent Drawing Review (P10-946) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	8)	5) Notice of Informal P 6) Other:		O-152)			

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DETAILED ACTION

Restriction/Election Requirement

Restriction to one of the following inventions is required under 35 U.S.C. § 121:

- I. Claims 1-7, drawn to a molecule or molecular complex, classified in class 530, subclass 300 or 350.
- II. Claims 8-18, drawn to a three dimensional configuration of points, classified in Class 707, subclass 100.
- III. Claims 19-20, drawn to a machine readable storage medium comprising data, classified in Class 700, subclass 90.
- IV. Claim 21, drawn to a method for obtaining structural information about a molecule, classified in Class 702, subclass 27.
- V. Claim 22, drawn to a method for homology modeling, classified in Class 703, subclass 11.
- VI. Claims 23-34 and 40 in part, drawn to a computer-assisted method for identifying an inhibitor of S. aureus thymidylate kinase activity, classified in Class 702, subclass 27.
- VII. Claims 35-39 and 40 in part, drawn to a computer-assisted method for designing an inhibitor of S. aureus thymidylate kinase activity de novo, classified in Class 702, subclass 19.
- VIII. Claims 41-43, drawn to a method for making an inhibitor of S. aureus thymidylate kinase activity, classified in Class 435, subclass 7.71.
- IX. Claims 44-46, drawn to an inhibitor of S. aureus thymidylate kinase activity, classified in Class 435, subclass 7.8.

The inventions of groups I-IX are independent/distinct, each from the other because of the following reasons:

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Inventions of groups I and any of II, III and IV are directed to related products. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, the products of groups I-III and IX are related because they are all in one way or another related to S. aureus thymidylate kinase. However they are distinct in that group I is directed to a molecule or molecular complex of S. aureus thymidylate kinase, which functions as an enzyme; group II is directed to a 3-dimensional configuration of representation; group III is directed to machine readable storage medium comprising data, and group IX is directed to inhibitors of the enzyme. Therefore, clearly the products of the different groups are mutually exclusive, not obvious variants and have different modes of actions, functions and effects.

Inventions of groups IV-VIII are directed to related methods. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, the methods of groups IV-VIII are related because they are all in one way or another related to S. aureus thymidylate kinase. However they are distinct in that group IV is directed to a method for obtaining structural information about a molecule, involving crystallization of molecules; group V is drawn to a method for homology modeling, involving aligning sequences and modeling with energy minimization; group VI is

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drawn to a computer-assisted method for identifying an inhibitor of S. aureus thymidylate kinase activity, involving supplying a computer model and structural data; group VII is drawn to a computer-assisted method for designing an inhibitor of S. aureus thymidylate kinase activity de novo, involving computationally building a chemical entity represented by structural coordinates; and group VIII is drawn to a method for making an inhibitor of S. aureus thymidylate kinase activity, involving actually physical synthesizing a chemical entity. Therefore, clearly the methods of the different groups are mutually exclusive, not obvious variants and have different modes of actions, functions and effects.

Inventions of groups IX and any of IV-VIII are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product of group IX may be made in a process involving any of the methods of groups IV-VIII, which are distinct for reasons set forth above. Furthermore, the product can be made de novo in a pure chemical combinatorial library and screened for its ability of inhibiting the activity of S. aureus thymidylate kinase.

The invention of Group I or II or III and any of groups IV-VIII are related as product and distinct processes of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (M.P.E.P. § 806.05(h)). In the instant case, the molecule or molecular complex of group I, or the 3-dimensional configuration of group II, or the storage

medium of Group III can be used in one way or another in any of the processes of groups IV-VIII, which are distinct for reasons set forth above.

Because these inventions are independent/distinct for the reasons given above and have different classifications, they have acquired a separate status in the art, and are usually published separately in the literature. Searing all the groups together would involve searching all the distinct subject matter. Thus, there would be a serious search burden if they were examined together. Therefore, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04.

Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection

or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shubo (Joe) Zhou, whose telephone number is 571-272-0724. The examiner can normally be reached Monday-Friday from 8 A.M. to 4 P.M. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang, can

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be reached on 571-272-0811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public. For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Shubo (Joe) Zhou, Ph.D. Shuffhor

Patent Examiner